

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Holdtite R91

Revision 0

Revision date 2017-09-12

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Holdtite R91
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC1] Adhesives, sealants;
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1.3. Details of the supplier of the safety data sheet

Company	Bondchem
Address	Unit 10 Lawson Street Dock Road Industrial Estate North Shields Tyne and Wear NE29 6TF
Web	www.bondchem.com
Telephone	+44 (0)191 2586990
Fax	+44 (0)191 2596853

1.4. Emergency telephone number

Emergency telephone number	+44(0)191 2586990
Company	Bondchem (Head Office) 24 hours (Diverted out of office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	Xi; R36/38-43 Symbols: Xi: Irritant.
Main hazards	Irritating to eyes and skin. May cause sensitisation by skin contact.
2.1.2. Classification - EC 1272/2008	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319;

2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2: H319 - Causes serious eye irritation.
Precautionary Statement: Prevention	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.

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2.2. Label elements

Precautionary Statement: Response	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P302+P352 - IF ON SKIN: Wash with plenty of water/ .
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P321 - Specific treatment (see on this label).
	P332+P313 - If skin irritation occurs: Get medical advice/attention.
Precautionary Statement: Disposal	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
	P501 - Dispose of contents/container to

2.3. Other hazards

Other hazards	This product does not contain any substances classified as PBT or vPvB.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Cumene hydroperoxide	617-002-00-8	80-15-9	201-254-7	01-2119475796-19	0.5 - 1%	O; R7 T; R23 Xn; R21/22-48/20/22 C; R34 N; R51/53	
Triethyleneglycol Dimethacrylate		109-16-0	203-652-6	01-2119969287-21	40 - 50%	Xi; R43	
2-Hydroxyethyl methacrylate	607-124-00-X	868-77-9	212-782-2	01-2119490169-29	20 - 30%	Xi; R36/38 R43	
Cumene	601-024-00-X	98-82-8	202-704-5		0 - 0.5%	R10 Xn; R65 Xi; R37 N; R51/53	
1-Acetyl-2-Phenylhydrazine		114-83-0			0 - 0.5%	T; R25 Xi; R36/37/38-43	
Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)		128-37-0		01-2119555270-46	0 - 0.5%	R53	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Cumene hydroperoxide	617-002-00-8	80-15-9	201-254-7	01-2119475796-19	0.5 - 1%	Org. Perox. EF: H242; Acute Tox. 3: H331; Acute Tox. 4: H312; Acute Tox. 4: H302; STOT RE 2: H373; Skin Corr. 1B: H314; Aquatic Chronic 2: H411;	
Triethyleneglycol Dimethacrylate		109-16-0	203-652-6	01-2119969287-21	40 - 50%	Skin Sens. 1: H317;	
2-Hydroxyethyl methacrylate	607-124-00-X	868-77-9	212-782-2	01-2119490169-29	20 - 30%	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317;	
1-Acetyl-2-Phenylhydrazine		114-83-0			0 - 0.5%	Acute Tox. 3: H301; Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; STOT SE 3: H335;	
Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)		128-37-0		01-2119555270-46	0 - 0.5%	Aquatic Chronic 1: H410;	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Remove casualty from exposure ensuring one's own safety whilst doing so. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Keep the affected person warm and at rest. Rinse mouth thoroughly. Drink 1 to 2 glasses of

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4.1. Description of first aid measures

	water. Seek medical attention.
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4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin. Eczema. Itching.
Ingestion	Ingestion may cause nausea and vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

	Remove the affected person from the source of contamination immediately. If you feel unwell, seek medical advice (show the label where possible).
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SECTION 5: Firefighting measures

5.1. Extinguishing media

	Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	In case of fire and/or explosion do not breathe fumes. Wear: Protective equipment. Self-contained breathing apparatus. Cool fire exposed containers with waterspray.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Do not allow runoff water to enter sewers or drains. Do not empty into drains; dispose of this material and its container in a safe way.
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6.4. Reference to other sections

	Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind, keeping bystanders also upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak side up to prevent escape of liquid.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Wear suitable protective clothing and gloves. Wear eye/face protection. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing. Do not eat, drink or smoke in areas where this product is used or stored. Wash hands after handling the product.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
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7.3. Specific end use(s)

	Industrial uses: Uses of substances as such or in preparations at industrial sites.
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Suitable packaging

	LDPE Plastic containers.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.1.1. Exposure Limit Values**

Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:
Cumene	WEL 8-hr limit ppm: 25	WEL 8-hr limit mg/m3: 125
	WEL 15 min limit ppm: 50	WEL 15 min limit mg/m3: 250
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:

8.2. Exposure controls

	 
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
8.2.3. Environmental exposure controls	Not normally required.
Occupational exposure controls	Wash hands at the end of each shift and before eating, smoking and using the toilet. Wash skin promptly if skin becomes contaminated. Promptly remove any clothing that has become contaminated.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Green/Red
Odour	Characteristic
pH	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Explosive properties	No data available
Oxidising properties	No data available
Viscosity	> 100 mPas (Cone & Plate)
Relative density	> 1.12 (H ₂ O = 1 @ 20 °C)
Solubility	No data available

9.2. Other information

Conductivity	No data available
Surface tension	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

	Avoid contact with: Copper and its alloys. Peroxides. Strong acids.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	If product is contaminated and becomes unstable the product may polymerize and produce an exothermic reaction.
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10.4. Conditions to avoid

	Heat. Keep only in the original container at a temperature not exceeding 15 °C.
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10.5. Incompatible materials

	Acids. Copper and its alloys. Strong oxidising agents.
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10.6. Hazardous decomposition products

	Burning produces irritating, toxic and obnoxious fumes.
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SECTION 11: Toxicological information

11.1.4. Toxicological Information

1-Acetyl-2-Phenylhydrazine	Oral Mouse LD50: 270mg/kg	
2-Hydroxyethyl methacrylate	Dermal Rat LD50: >5000mg/kg	Oral Rat LD50: >5000mg/kg
Butylated Hydroxytoluene	Oral Rat LD50: 1700mg/kg	Oral Mouse LD50: 800-1600mg/kg
	Dermal Guinea Pig LD50: >8000mg/kg	
Cumene	Dermal Rat LD50: 12.3mg/kg	Oral Rat LD50: 2910mg/kg
Cumene hydroperoxide	Inhalation Rat LC50/4 h: 220ppm	Oral Rat LD50: 382mg/kg
Triethyleneglycol Dimethacrylate	Oral Mouse LD50: >200mg/kg body weight	

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SECTION 12: Ecological information**12.1. Toxicity**

2-Hydroxyethyl methacrylate	Algae IC50/72h: 836.0000 mg/l	Fish LC50/96h: 100.0000 mg/l
Butylated Hydroxytoluene	Daphnia EC50/48h: 1.4400 mg/l	
Cumene	Fish LC50/96h: 6.3200 mg/l	
Cumene hydroperoxide	Fish LC50/96h: 3.9000 mg/l	
Triethyleneglycol Dimethacrylate	Fish LC50/96h: 16.4 mg/l	

12.3. Bioaccumulative potential**Partition coefficient**

	Holdtite R91 No data available
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12.5. Results of PBT and vPvB assessment

	The product does not contain any substances classified as PBT or vPvB.
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SECTION 13: Disposal considerations**General information**

	Dispose of in compliance with all local and national regulations.
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Disposal methods

	For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
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Disposal of packaging

	Empty containers can be sent for disposal or recycling.
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SECTION 14: Transport information**14.1. UN number**

	The product is not classified as dangerous for carriage.
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14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
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14.3. Transport hazard class(es)

	The product is not classified as dangerous for carriage.
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14.4. Packing group

	The product is not classified as dangerous for carriage.
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14.5. Environmental hazards

	The product is not classified as dangerous for carriage.
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14.6. Special precautions for user

	The product is not classified as dangerous for carriage.
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	The product is not classified as dangerous for carriage.
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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

	COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency,
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

SECTION 16: Other information

Other information

Text of risk phrases in Section 3

R7 - May cause fire.
 R10 - Flammable
 R21/22 - Harmful in contact with skin and if swallowed.
 R23 - Toxic by inhalation.
 R25 - Toxic if swallowed.
 R34 - Causes burns.
 R36/37/38 - Irritating to eyes, respiratory system and skin.
 R36/38 - Irritating to eyes and skin.
 R37 - Irritating to respiratory system.
 R43 - May cause sensitisation by skin contact.
 R48/20/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R53 - May cause long-term adverse effects in the aquatic environment.
 R65 - Harmful: may cause lung damage if swallowed.

Text of Hazard Statements in Section 3

Skin Sens. 1: H317 - May cause an allergic skin reaction.
 Skin Irrit. 2: H315 - Causes skin irritation.
 Eye Irrit. 2: H319 - Causes serious eye irritation.
 Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.